



Project: Alaska Copper Works

Inspection Date: 11/25/19

Project No.: 19ACW1

Technician: David DuBois

System Performance:

Was system running during the inspection? ☒ Yes ☐ No

Flow Rates (gpm)	Influent	<u>100</u>	Effluent	<u>150</u>	The flows should be ~155 gpm
Bag Filter #1 Pressures (psi)	Influent	<u>11</u>	Effluent	<u>11</u>	The bag filters should be replaced if differential pressure > 8 psi
Bag Filter #2 Pressures (psi)	Influent	<u>10</u>	Effluent	<u>10</u>	
Carbon Filter Pressures (Lead)	Influent	<u>10</u>	Effluent	<u>5</u>	The carbon filters should be backflushed if differential pressure > 8 psi
Carbon Filter Pressures (Lag)	Influent	<u>4</u>	Effluent	<u>0</u>	

Were the bag filters replaced? ☐ Yes ☒ No

Was the carbon backflushed? ☐ Yes ☒ No

Maintenance and Inspection Checklist:

Task	Completed (Y/N)	Issues/Notes/Comments
Walchem Controller Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No issues
Flow Meters Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No issues
Level Sensor Cleaning/Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Inspect System Plumbing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumps Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No vibrations or noise
General Housekeeping	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Chemistry Level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20 gallons 10% Caustic 55 gallons 25% Caustic
Safety Materials Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
pH Probe Inspection/Calibration	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Calibrated - OK



Water Sampling:

Were water samples taken? ☐ Yes ☒ No

Raw water:	pH	<u>6.27</u>	Turbidity	<u>4.00</u>	NTU
Bag Filter Influent	pH	<u>9.21</u>	Turbidity	<u>8.49</u>	NTU
Bag Filter Effluent	pH	<u>9.37</u>	Turbidity	<u>6.55</u>	NTU
Carbon Filter Influent	pH	<u>8.72</u>	Turbidity	<u>4.19</u>	NTU
Carbon Filter Effluent	pH	<u>7.77</u>	Turbidity	<u>2.77</u>	NTU

Monthly Tasks:

Were samples submitted to Analytical? ☐ Yes ☒ No

Analytical Lab: _____

Was Walchem data downloaded? ☐ Yes ☒ No

Were the tank sludge levels checked? ☐ Yes ☒ No

Sludge Depth (inches):

Decant Tank: _____

Treatment tank: _____

Backflush tank: _____

Main lift station: _____

North lift station: _____

South lift station: _____

Additional Comments, Recommendations and System Upsets:

Ten unused filters remain onsite.
Recalibrated pH probe to reduce caustic dosing.

David DuBois

Technician

Project Lead Technician

Title

11/25/19

Date

Submit